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NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 06/03/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747

FALLS CHURCH, VA 22040-0747

EXAMINER				
NGUYE2	N, HOANG M			
ART UNIT	PAPER NUMBER			
3748	•			
DATE MAILED: 06/03/2	009			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,063	09/19/2005	Akihisa Sato	2830-0187PUS1	6899
TITI E OF INVENTION: DANKINE CYCLE SYSTEM				

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir d below or directed oth ions.	or tran g the l erwise	smitting the ISSU Patent, advance or in Block 1, by (a	TE FEE and PUBLIC ders and notification a) specifying a new of					nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying pagers. Each additional pager, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
2292	7590 06/03	/2009				Cer	tificate	of Mailing or Trans	mission
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									(Depositor's name)
									(Signature)
					L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOF	ξ.	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/522,063	09/19/2005			Akihisa Sato			2	830-0187PUS1	6899
TITLE OF INVENTION:	RANKINE CYCLE SY	STEM							
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nonprovisional	NO		\$1510	\$300		\$0		\$1810	09/03/2009
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NGUYEN, I	HOANG M		3748	060-645000		_			
Change of corresponde CFR 1.363).	nce address or indicatio	a of "Fe	ee Address" (37	2. For printing on	the p	patent front page, lis	st		
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Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		(2) the name of a single firm (having as a member a 2							
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3. ASSIGNEE NAME AT									
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Comp	fied be	low, no assignee of this form is NO	data will appear on t I a substitute for filin	he p	patent. If an assign assignment.	ee is io	lentified below, the de	scument has been filed for
(A) NAME OF ASSIC				(B) RESIDENCE: (0					
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):		Individual 🗆 Co	orporati	ion or other private gro	up entity Government
4a. The following fee(s) a	are submitted:		41			ase first reapply a	ny prev	lously paid issue fee	shown above)
Issue Fee				A check is enclosed		1 F Pro 2020			
Advance Order - #	o small entity discount p	ermitte	ed)		dit card. Form PTO-2038 is attached. hereby authorized to charge the required fee(s), any deficiency, or credit any				
				overpayment, to	Dep	osit Account Numb	er	(enclose a	extra copy of this form).
	SMALL ENTITY state	s. See	37 CFR 1.27.					ПТҮ status. Sec 37 СЕ	
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	iired) v tes Pate	will not be accepted and Trademark	d from anyone other t Office.	han	the applicant; a regi	stered.	attorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT den, st NOT	11. The informatic 122 and 37 CFR O. Time will vary could be sent to the SEND FEES OR	on is required to obtain 1.14. This collection depending upon the e Chief Information C COMPLETED FORM	n or is es indi Offic IS T	retain a benefit by t stimated to take 12 i vidual case. Any co er, U.S. Patent and O THIS ADDRESS	he pub minuter omment Trader S. SEN	lic which is to file (and s to complete, includin is on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/522,063 09/19/2005 Akihisa Sato		2830-0187PUS1	6899		
2292 75	90 06/03/2009	EXAMINER			
BIRCH STEWART KOLASCH & BIRCH			NGUYEN,	HOANG M	
PO BOX 747			ART UNIT PAPER NUMBER		
FALLS CHURCH, VA 22040-0747			3748		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 927 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 927 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)	
10/522,063	SATO ET AL.	
Examiner	Art Unit	
Hoong M. Nauron	2740	

Notice of Allowability	Examiner	Art Unit	
	Hoang M. Nguyen	3748	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	lication. If not includ- will be mailed in due	ed course. THIS
This communication is responsive to			
 The allowed claim(s) is/are <u>1</u>. 			
3. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE *MAILING DATE* noted below. Failure to timely comply will result in ABANDOMM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application No suments have been received in this of this communication to file a reply	national stage applica	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the control of	is reason(s) why the oath or declara t be submitted. on's Patent Drawing Review (PTO- s Amendment / Comment or in the C 34(c)) should be written on the drawin be header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL r	guestion is deficient. 948) attached ffice action of ags in the front (not the state). nust be submitted.	back) of
Attachment(s) 1.	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other .	(PTO-413), e nent/Comment	wance

Application/Control Number: 10/522,063 Page 2

Art Unit: 3748

STATEMENT OF REASONS FOR ALLOWANCE

The prior art cited herein fail to disclose a Rankine cycle comprising a controller and an improvement that, in order to make the pressure of the gas-phase working medium at the inlet of the expander (13) coincide with a target pressure, the system comprises control means (20) for calculating a feedforward value (NFF) on the basis of the target pressure and the flow rate of the gas-phase working medium at the outlet of the evaporator (12), calculating a feedback value (NFB) by multiplying a deviation of the pressure of the gas-phase working medium at the inlet of the expander (13) from the target pressure by a feedback gain (kp) calculated on the basis of the flow rate of the gas-phase working medium, and controlling the rotational speed of the expander (13) on the basis of the result of addition/subtraction of the feedforward value (NFF) and the feedback value (NFB).

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday—Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on 571-272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Hoang M Nguyen/ Primary Examiner, Art Unit 3748

> HOANG NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 6/1/2009